

## SmartPro LCD 120V 1500VA 900W Line-Interactive UPS, AVR, Extended Runtime, 2U Rack/Tower, LCD, USB, DB9, 8 Outlets

MODEL NUMBER: **SMART1500LCDXL**



Provides reliable 1500VA/900W power protection with expandable runtime for your desktop computer, network workstation, audio/video components or media center. Protects against surges, line noise, blackouts and brownouts.

### Description

The SMART1500LCDXL SmartPro® LCD 120V 1500VA/900W Line-Interactive Uninterruptible Power Supply provides battery backup and AC power protection against blackouts, brownouts, power surges and line noise that can damage electronics or destroy data. Ideal for backing up your desktop computer or audio/visual components, this line-interactive UPS switches to battery backup mode in milliseconds to keep your connected equipment running long enough to save files and shut down safely with no data loss. Eight NEMA 5-15R outlets protect against surges, as well as provide up to 12 minutes of UPS battery support at half-load (450W) and 4.2 minutes of support at full load (900W). You can get even more runtime by connecting an optional BP24V15RT2U external battery pack (sold separately). Automatic voltage regulation (AVR) corrects severe undervoltages as low as 75V and overvoltages as high as 147V without using any battery power. EMI/RFI noise filtering improves your equipment's performance and prevents damage. A 1038-joule surge suppression rating protects your equipment from harmful power surges.

Space-saving NEMA 5-15P right-angle plug with six-foot (1.8 meters) cord connects to any NEMA 5-15R socket. Large rotatable LCD screen shows real-time input voltage, load, AVR, remaining battery runtime and battery statuses at a glance. With PowerAlert® software (available via free download), the SMART1500LCDXL enables safe unattended system shutdown in case of a prolonged power failure.

### Features

**Reliable Battery Backup** Provides 1500VA/900W high-performance power protection for desktop computers, audio/video components, media centers and other electronics Supports 50% load (450W) up to 12 minutes and full load (900W) up to 4.18 minutes 97% full-load efficiency rating saves money in energy costs Audible alarm indicates loss of utility power, low battery and overload conditions Optional BP24V15RT2U external battery pack easily connects for expanded runtime

**Optimized Outlets** 8 NEMA 5-15R outlets provide battery backup and protect against surges or spikes that can harm equipment or data

**Automatic Voltage Regulation (AVR)** Corrects undervoltages as low as 75V and overvoltages as high as 147V without drawing battery backup power

**Rotatable LCD Status Screen** Large LCD screen shows real-time input voltage, load, AVR and battery statuses Automatically displays remaining battery runtime in minutes during power outage Rotates for easy

### Highlights

- Supports a half-load (450W) up to 12 min. during power outage
- Supports a full load (900W) up to 4 min. during power outage
- Features 8 protected NEMA 5-15R outlets
- Offers automatic voltage regulation (AVR)
- Extends runtime with optional BP24V15RT2U external battery pack

### Package Includes

- SMART1500LCDXL SmartPro LCD 120V 1500VA/900W Line-Interactive UPS
- USB cable
- DB9 serial cable
- Telephone cable
- Mounting hardware
- Owner's Manual



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viewing in both horizontal and vertical installations  
Brightness control offers bright and dim selection options

**AC Line, Tel/DSL and Ethernet Surge Suppression** Surge suppression rating of 1038 joules protects connected equipment and data from harmful power surges  
Built-in RJ-45 jacks protect single-line tel/DSL or network Ethernet connection

**EMI/RFI Line Noise Filtering** Removes electromagnetic and radio frequency interference that can disrupt or damage your equipment's performance

**USB and DB9 Communication Ports and Free PowerAlert Software** HID-compliant USB port integrates with built-in power management and auto-shutdown of Windows and macOS  
USB & Serial ports enable data-saving unattended shutdown when used with PowerAlert software, available via FREE download from [tripplite.eaton.com/products/power-alert](http://tripplite.eaton.com/products/power-alert)

**Flexible Installation Options** Space-saving NEMA 5-15P right-angle plug with 6-ft. (1.83 m) cord connects to any NEMA 5-15R socket  
Adapts to vertical or horizontal installation without special hardware  
Includes 2U brackets for rack-mount installation

## Specifications

| OVERVIEW                           |                                     |
|------------------------------------|-------------------------------------|
| UPC Code                           | 037332159885                        |
| UPS Type                           | Line-Interactive                    |
| INPUT                              |                                     |
| Input Phase                        | Single-Phase                        |
| Rated input current (Maximum Load) | 8.6A                                |
| Nominal Input Voltage(s) Supported | 110V AC; 115V AC; 120V AC           |
| UPS Input Connection Type          | 5-15P; Right-Angled                 |
| Input Circuit Breakers             | 10A                                 |
| UPS Input Cord Length (ft.)        | 6                                   |
| UPS Input Cord Length (m)          | 1.8                                 |
| Recommended Electrical Service     | 15A 120V                            |
| Maximum Input Amps                 | 9                                   |
| OUTPUT                             |                                     |
| Output Capacity (VA)               | 1500                                |
| Output Capacity (kVA)              | 1.5                                 |
| Output Capacity (Watts)            | 900                                 |
| Output Capacity (kW)               | 0.9                                 |
| Power Factor                       | 0.6                                 |
| Nominal Voltage Details            | 115v nominal output in battery mode |
| Frequency Compatibility            | 60 Hz                               |



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|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Voltage Regulation (Line Mode)        | -18%, +8%                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Output Voltage Regulation (Battery Mode)     | +/- 5%                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Output AC Waveform (AC Mode)                 | Sine wave                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Output AC Waveform (Battery Mode)            | PWM sine wave                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Nominal Output Voltage(s) Supported          | 110V; 115V; 120V                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Output Receptacles                           | (8) 5-15R                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Individually Controllable Load Banks         | No                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>BATTERY</b>                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Battery Type                                 | Valve Regulated Lead Acid (VRLA)                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Runtime Full Load (min.)                     | 4.18 min. (900W)                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Runtime Half Load (min.)                     | 12 min. (450W)                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Expandable Runtime                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Expandable Runtime Description               | Extended runtime supported via optional external battery pack (limit 1)                                                                                                                                                                                                                                                                                                                                                                                    |
| External Battery Pack Compatibility          | <a href="https://tripplite.eaton.com/External-24V-2U-Rack-Tower-Battery-Pack-for-select-Tripp-Lite-UPS-Systems-BP24V15RT2U">BP24V15RT2U</a> (limit 1)                                                                                                                                                                                                                                                                                                      |
| DC System Voltage (VDC)                      | 24                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Battery Recharge Rate (Included Batteries)   | Less than 4.5 hours from 10% to 90%                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Battery Access                               | Battery access door enables hot-swappable, user replaceable internal battery                                                                                                                                                                                                                                                                                                                                                                               |
| Internal UPS Replacement Battery Cartridge   | <a href="https://tripplite.eaton.com/ups-battery-replacement-for-smart1200lcd-smart1500lcd-smart1500lcdxl-smx1500lcd-RBC1500">RBC1500</a>                                                                                                                                                                                                                                                                                                                  |
| <b>VOLTAGE REGULATION</b>                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Voltage Regulation Description               | Automatic voltage regulation (AVR) maintains line power operation with an input voltage range of 75 to 147                                                                                                                                                                                                                                                                                                                                                 |
| Overvoltage Correction                       | Input voltages between 128 and 147 are reduced by 12%                                                                                                                                                                                                                                                                                                                                                                                                      |
| Undervoltage Correction                      | Input voltages between 93 and 107 are boosted by 14%                                                                                                                                                                                                                                                                                                                                                                                                       |
| Severe Undervoltage Correction               | Input voltages between 75 and 92 are boosted by 30%                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>USER INTERFACE, ALERTS &amp; CONTROLS</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Front Panel LCD Display                      | LCD interface reports Input Voltage, Output Voltage, Battery Charge Percentage, Estimated Runtime in Minutes, Load Percentage, Load Watts; Additional LCD icons report battery charge level (5 "bars"), Line Power Mode, Battery Mode, Replace Battery and Auto-Voltage Regulation / AVR status; LCD interface control options include Alarm Disable, Display Scrolling, Initiate Self-test, LCD brightness, External Battery setting and line sensitivity |
| Switches                                     | 2 Switches control off/on power status and alarm-cancel/self-test operation                                                                                                                                                                                                                                                                                                                                                                                |
| Alarm Cancel Operation                       | Power-fail alarm can be silenced using alarm-cancel switch; once silenced, alarm will re-sound to indicate low-battery status                                                                                                                                                                                                                                                                                                                              |
| Audible Alarm                                | Audible alarm indicates power-failure and low-battery conditions; Alarm can be permanently silenced via LCD interface                                                                                                                                                                                                                                                                                                                                      |



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| SURGE / NOISE SUPPRESSION                                     |                                                                                                                                                                                        |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UPS Dataline Suppression                                      | 1 line TEL/DSL (1 in / 1 out); 10/100Base T Ethernet                                                                                                                                   |
| EMI / RFI AC Noise Suppression                                | Yes                                                                                                                                                                                    |
| AC Suppression Joule Rating                                   | 1038                                                                                                                                                                                   |
| AC Suppression Response Time                                  | Instantaneous                                                                                                                                                                          |
| PHYSICAL                                                      |                                                                                                                                                                                        |
| Primary Form Factor                                           | Rackmount                                                                                                                                                                              |
| Rack Height                                                   | 2U                                                                                                                                                                                     |
| Cooling Method                                                | Fan                                                                                                                                                                                    |
| Installation Form Factors Supported with Included Accessories | 2 post 19 inch rackmount; 2 post front mount; 4 post 19 inch rackmount; Tower                                                                                                          |
| Minimum Required Rack Depth (cm)                              | 35.56                                                                                                                                                                                  |
| Minimum Required Rack Depth (inches)                          | 14                                                                                                                                                                                     |
| Primary UPS Depth (mm)                                        | 267                                                                                                                                                                                    |
| Primary UPS Height (mm)                                       | 89                                                                                                                                                                                     |
| Primary UPS Width (mm)                                        | 439                                                                                                                                                                                    |
| Shipping Dimensions (hwd / in.)                               | 7.80 x 21.77 x 15.28                                                                                                                                                                   |
| Shipping Dimensions (hwd / cm)                                | 19.81 x 55.30 x 38.81                                                                                                                                                                  |
| Shipping Weight (lbs.)                                        | 36.00                                                                                                                                                                                  |
| Shipping Weight (kg)                                          | 16.33                                                                                                                                                                                  |
| UPS Housing Material                                          | Polycarbonate                                                                                                                                                                          |
| UPS Power Module Dimensions (hwd, cm)                         | 8.89 x 43.94 x 26.67                                                                                                                                                                   |
| UPS Power Module Dimensions (hwd, in.)                        | 3.5 x 17.3 x 10.5                                                                                                                                                                      |
| UPS Power Module Weight (kg)                                  | 13.34                                                                                                                                                                                  |
| UPS Power Module Weight (lbs.)                                | 29.4                                                                                                                                                                                   |
| Unit Dimensions (hwd / in.)                                   | 3.500 x 17.250 x 10.500                                                                                                                                                                |
| Unit Weight (lbs.)                                            | 30.000                                                                                                                                                                                 |
| Unit Weight (kg)                                              | 13.61                                                                                                                                                                                  |
| Mounting Details                                              | Included mounting brackets enable installation in 2 and 4 post racks, plus upright tower configurations; Set of 4 rubber-feet enable no-slip horizontal desktop placement installation |
| ENVIRONMENTAL                                                 |                                                                                                                                                                                        |
| Operating Temperature Range                                   | 32° to 104°F (0° to 40°C)                                                                                                                                                              |
| Storage Temperature Range                                     | 5° to 122°F (-15° to 50°C)                                                                                                                                                             |
| Relative Humidity                                             | Up to 95%, non-condensing                                                                                                                                                              |



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|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC Mode BTU / Hr. (Full Load)                               | 78                                                                                                                                                                                                                                    |
| AC Mode Efficiency Rating (100% Load)                       | 97%                                                                                                                                                                                                                                   |
| Battery Mode Heat Dissipation (BTU/Hr) @ Full Load          | 721                                                                                                                                                                                                                                   |
| Operating Elevation                                         | 0-6562 ft. (0-2000 m)                                                                                                                                                                                                                 |
| <b>COMMUNICATIONS</b>                                       |                                                                                                                                                                                                                                       |
| Network Monitoring Port Description                         | Supports detailed monitoring of UPS and site power conditions; DB9 port also supports contact-closure messaging for power-fail (pins 1 & 9) and power-restored (pins 1, 8)                                                            |
| PowerAlert Software                                         | For local monitoring via the UPS's built-in communication ports, download PowerAlert software at <a href="https://tripplite.eaton.com/products/power-alert">https://tripplite.eaton.com/products/power-alert</a>                      |
| Communications Cable                                        | USB and DB9 Serial cabling included                                                                                                                                                                                                   |
| WatchDog Compatibility                                      | Supports Watchdog application, OS and hard-reboot restart options for remote applications                                                                                                                                             |
| Network UPS Tools (NUT) Compatibility                       | NUT compatible. See a full list of NUT compatible Tripp Lite UPS systems at <a href="https://networkupstools.org/stable-hcl.html?manufacturer=Tripp%20Lite">https://networkupstools.org/stable-hcl.html?manufacturer=Tripp%20Lite</a> |
| Network Management Card Description                         | Network management not supported                                                                                                                                                                                                      |
| Communications Interface                                    | Contact closure; DB9 Serial; USB (HID enabled)                                                                                                                                                                                        |
| <b>LINE / BATTERY TRANSFER</b>                              |                                                                                                                                                                                                                                       |
| Transfer Time                                               | 4 milliseconds AC to battery mode / 3 milliseconds battery to AC mode                                                                                                                                                                 |
| Low Voltage Transfer to Battery Power (Setpoint)            | 75                                                                                                                                                                                                                                    |
| High Voltage Transfer to Battery Power (Setpoint)           | 147                                                                                                                                                                                                                                   |
| <b>FEATURES &amp; SPECIFICATIONS</b>                        |                                                                                                                                                                                                                                       |
| Cold Start (Startup in Battery Mode During a Power Failure) | Cold-start operation supported                                                                                                                                                                                                        |
| High Availability UPS Features                              | Automatic Voltage Regulation (AVR); Hot swappable batteries; Surge/noise protection                                                                                                                                                   |
| Green Energy-Saving Features                                | Greater than 95% efficiency - GREEN UPS                                                                                                                                                                                               |
| <b>APPLICATIONS</b>                                         |                                                                                                                                                                                                                                       |
| UPS Applications                                            | Home/Office Desktop; Audio/Video; High-End Desktop/Small Network; Retail/Point of Sale; Hospitality                                                                                                                                   |
| <b>STANDARDS &amp; COMPLIANCE</b>                           |                                                                                                                                                                                                                                       |
| Product Certifications                                      | CSA (Canada); NOM (Mexico); UL 1778                                                                                                                                                                                                   |
| Product Compliance                                          | RoHS; FCC Part 15 Class B (USA)                                                                                                                                                                                                       |
| <b>WARRANTY &amp; SUPPORT</b>                               |                                                                                                                                                                                                                                       |
| Product Warranty Period (Worldwide)                         | 2-year limited warranty                                                                                                                                                                                                               |



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|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Product Warranty Period (U.S. & Canada)                    | 3-year limited warranty                                                                                                  |
| Product Warranty Period (Latin America)                    | 3-year limited warranty                                                                                                  |
| Product Warranty Period (International)                    | 2-year limited warranty                                                                                                  |
| Product Warranty Period (Mexico)                           | 3-year limited warranty                                                                                                  |
| Connected Equipment Insurance (U.S., Canada & Puerto Rico) | \$250,000 <a class="insuranceLink" href="//tripplite.eaton.com/support/insurance-policy">Ultimate Lifetime Insurance</a> |

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